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Ventilation Technical Standards for Metal and Nonmetal Underground Mines - Ventilation System

金属非金属地下矿山通风技术规范

通风系统

(English Translation)

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Ventilation Technical Standards for Metal and Nonmetal Underground Mines - Ventilation System

1 Scope

This standard specifies the technical requirements of metal and nonmetal underground mines (including mines of accompanying radon and its daughters) on under-well ventilation system in safety assessment, design, construction and exploitation process.

This standard is applicable to safety assessment, design, construction and exploitation of metal and nonmetal underground mines (including mines of accompanying radon and its daughters). It is also applicable to the part of deep open-pit mine which is exploited by adopting underground shaft and drift.

This standard is not applicable to the exploitation of radioactive mineral resources, coal, mine coal-derived pyrite and other paragenetic mineral resources of coal.

This standard is not applicable to the exploitation of mineral resources in liquid or gas state like petroleum, natural gas, mineral water, etc.

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated references, subsequent amendments (excluding corrections), or revisions, of any of these publications do not apply to this standard. However parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

GB 16423 *Safety Regulations for Metal and Nonmetal Mines*
GB 4792 *Basic Health Standards for Radiological Protection*
GBZ 2 *Occupational Exposure Limit for Hazardous Agents in the Workplace*
GB 87 *Specifications for the Design of Noise Control System in Industrial Enterprises*
GB 50215 *Code for Design of Mine of Coal Industry*
YSJ 019 *Code for Design of Nonferrous Metal Mining*

3 Terms and Definitions

For the purpose of this standard, the following terms and definitions apply.

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3.1

metal and nonmetal underground mines

stope and its ancillary facilities taking footrill, inclined shaft, slope ramp, shaft, etc. as entrance/exit, which is deeply below the surface and used for the exploitation of metal or nonmetal minerals used for architecture industry, industry or processing industry

3.2

mine ventilation system

generic term of ventilating network, ventilating equipment and ventilation control facilities used for supplying fresh air to under-well operating locations and discharging vitiated air

3.3

ventilation control facilities

structures and facilities controlling under-well air flow, such as air door, air crossing, air window, wind-break wall and air curtain

3.4

ventilation system for multistage fan station

ventilation system with multistage fan stations arranged in air intake section, air-requiring section and air return section of main ventilation circuit and used for effectively transmitting the fresh air to air-requiring section or air-requiring point from ground surface via air intake shaft and drift in a relay manner and discharging the vitiated air generated by operation to ground surface via air return shaft and drift

3.5

requiral air-quantity of mine

sum of requiral air-quantity of all under-well workplaces

3.6

total air-quantity of mine

total supply air-quantity or total return air-quantity of mine ventilation system, whichever is

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